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A flat plate reflective assembly for receiving and focusing incident microwave

signals having a wavelength (λ) , comprising a series of adjacent reflecting surfaces,

each having a separate focal points offset from one another in focal length by one

wavelength or a multiple of the wavelength. When an incident microwave signal

strikes the reflective assembly, each reflected wave is directed to the focal point for

the respective reflecting surface and is collected by the LNB. Each reflected wave

arrives at the focal point for the reflecting surface in-phase with other reflected

radiation. However, spatial resolution of the focal points reduces the deconstructive

interferences between the reflected radiation. In another embodiment, the flat plate

reflective assembly is configured is configured to reflect incident radiation in-phase

such that microwave signals reflected by each reflective surface arrive at a common

focal point in-phase.